

REMARKS

Remarks as it regards to the Office Action Date from December 14th, 2006.

The Examiner has rejected the Amendment on September 25th, 2006 under 37
5 U.S.C. §121 as an amendment to the claims without a complete listing of all the
claims and each claim has not be provided with proper status identifiers:
(Original), (Currently Amended), (Canceled), (Previously Presented), (New), (Not
Entered), (Withdrawn) and (Withdrawn-currently amended).

10 The applicant has updated the response with the proper identifiers and has listed
all claims.

Remarks as it regards to the Office Action Date from September 25th, 2006.

Reconsideration of the application in view of the above amendments and the
15 following remarks is respectfully requested.

The Examiner provisionally rejects claims 1, 6, 8-10, 14 & 23-28 under 35 U.S.C.
§102 as claiming the same invention as U.S. Patent 3,656,112 by Paull.

20 The Examiner rejects claim 1 as being unpatentable over Paull. The Examiner
states that Paull discloses power line communication in the form of a system for
handing off or exchanging information comprising: tethered device connected to
power transmission communication network having transceiver and power
transmission communication system and untethered device/portable having a
25 transceiver for transceiving radio signals to remote location.

I cannot agree. Paull does disclose the transmission of information and
exchange of information; however, Paull never discloses a method of handoff
consisting of a process of transferring an ongoing call or data session from one
30 access point connected to the core network to another access point. The
exchanging of information does not constitute the exchanging of untethered
devices connected to a first access point so that it is reassigned to a second

access point. Also Paull never uses other synonyms for handoff such as reassigning. One skilled in the art of telecommunication would realize that Paull does not teach handoff but only to the transmission or exchanging of information, and that not every wireless device incorporates a method of handoff or a special
5 protocol to support handoff. One skilled in the art of telecommunication would realize that Paull states that the interrogator only talks to one meter at a time.
"This permits an interrogation operation to be carried out over a multi-station communication link with the assurance that one and only one reply station will respond to each interrogation message transmitted by the interrogator, and the
10 *identity of the reply station will be known to the interrogator."* (Paull - Col. 1, Line 45-50) One skilled in the art would recognize that Paull's communication system would not be beneficial for reassigning multiple devices and that only one meter could be read at one time.

15 Furthermore, Paull's filing date was March 14th, 1969 which is before the U.S. Patent Office's Art Unit 455/436 was established for subject matter wherein a mobile station during a call is switched from a first to a second serving base station, which may be located in different cells (inter-handoff) or located within a cell (intra-handoff) and USPTO Art Unit 455/442 was established for subject
20 matter wherein the mobile station maintains its assigned channel while entering a new cell (e.g., make before break). This Applicant has not found a patent in the Art Unit 455/442 and Art Unit 455/436 that uses Paull as a prior art reference. Furthermore, the USPTO has accepted the fact based on the non-reference to Paull and the creation of two distinct art units that handoff is not just exchanging
25 information but a complex method of reassigning devices from one base station to another base station.

Furthermore, Paull does disclose exchanging information with reply stations. However, Paull specifically says the exchange of information is with a single reply
30 station instead of having the ability to exchange information with multiple reply stations. [col.1, line 25 to col.1, line 50] Therefore, Paull is saying that this is not handoff but just the transmission of data. Paull's patent is not consistent with art

related to handoff whereby multiple untethered devices can be handed off in parallel and at the same time.

Although the Applicant believes that Claim 1 was clearly defined over the references cited by the Examiner, the claim has been modified in order to clarify the invention in this respect.

The Examiner rejects claim 6 as being unpatentable over Paull. The Examiner states that Paull discloses power line communication in the form of a system for handing off or exchanging information by wireless network.

I cannot agree. Paull does disclose the exchange of information, but never discloses the method of handoff. Furthermore, Paull does disclose the exchange of information over wireless network or power line communication network. Paull teaches that in case of power line communication, the system employs a wireless link to by-pass each transformed in the transmission path in order to transmit from one side of the other side of each transformer in the path. [col.1, line 55 to col.1, line 60] Paull never teaches that these wireless links to by-pass are actually access points used for handover. Paull teaches that these wireless links are only used for by-passing the transformer. Also, Paull teaches that power line communication can never be used between the wireless links to by-pass the transformer since the results would be that the transformer would not allow the communication to occur. This Applicant specifically teaches that the wireless links on the roadway luminaires can use powerline communication for the communication method for handoff since transformers may not be placed between roadway luminaires. One skilled in the art of powerline communications would realize that Paull teaches that the wireless by-pass being used on Utility Poles are for communication by-pass and that the transformers are used to convert medium/high voltages into lower voltages. This Applicant specifically teaches that a wireless by-pass is not needed on a roadway luminaire because the transformer may not be hung from a roadway luminaire. Furthermore, this Application teaches that the roadway luminaire can communicate and can

handoff untethered devices over powerline communications with other roadway luminaires because transformers do not filter between them.

Although the Applicant believes that Claim 6 was clearly defined over the
5 references cited by the Examiner, the claim has been modified in order to clarify the invention in this respect.

The Examiner rejects claim 8 as being unpatentable over Paull. The Examiner states that Paull discloses the transceiver connected to the power communication
10 network operates inside a lighting apparatus. [figs. 1-2, 11, col. 10, line 74 to col. 11, line 15].

I cannot agree. Paull discloses a photoelectric shaft rotation sensor comprising a pair of pulsed light sources. [col. 10 line 74] The pulsed light sources are
15 positioned behind a rotating disc attached to the rotating shaft. [col. 11 line 1 to col. 11 line 3] Paull discloses that these pulsed light sources may be substituted for incandescent light, and that the rotation disc may be the revolving disc in a watt-hour meter. [col. 11 line 2 to col. 11 line 3] Paull disclosed that the purpose of the light source is to read the disc as it rotates around so as to measure the
20 energy used while the Applicant discloses that the light source is used to illuminate a roadway. One skilled in the art of roadway illumination would realize that Paull's patent would not be able to illuminate the roadway. Paull does not teach that the photoelectric shaft or pulsed light sources is enclosed around a powerline communication device. Paull also does not disclose that the
25 photoelectric shaft or pair of pulsed light sources is attached to a utility pole or a roadway luminaire. Paull specifically states that the photoelectric shaft and pulsed light sources are fit inside an electric meter and is based on low voltage. One skilled in the art of meter reading would assume that a ballast would not be needed to power up the photoelectric shaft or pair of pulsed light sources, and
30 the light sources are not bright enough to provide visibility on a roadway. Finally, one skilled in the art of meter reading would assume that Paull discloses that the photoelectric shaft must be non-removable so as to insure the data being

gathered is not voided by criminal actions while the Applicant discloses that the roadway luminaire has a removable photosensor.

The Examiner rejects claims 9-10 as being unpatentable over Paull. The

5 Examiner states that Paull discloses the untethered/device/portable (100) having a transceiver (102,103) for transceiving radio signals to remote location (400). [figs. 1-2, col. 2, line 65 to col. 3, line 40 and lines 62-75]

10 I cannot agree. Paull discloses a device using radio or acoustic or powerline or any combination of these. [col. 1, line 65 to col. 1, line 70]. Paull does not disclose a device using infrared, ultraviolet, laser, visible light, magnetic, ultra wideband, or a combination of these communication methods. Furthermore, Paull does not disclose a method of handoff nor reference prior art using wireless handoff protocol such as 802.11e.

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The Examiner rejects claim 14 as being unpatentable over Paull. The Examiner states that Paull discloses the tethered device (300) connected to power transmission communication network having transceiver (301,306) and power transmission communication system (203) [figs 1-2, col.3, lines 3-22].

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I cannot agree. Paull never discloses a device that does not integrate the receiver or the transmitter and whereby said receiver or said transmitter is located in a different location such that the device can still use said receiver or transmitter. Paull also never discloses a mesh network.

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In similar fashion for the rejection of handoff in claim 1, the Examiner rejects claims 23-25. The Examiner states that Paull discloses power line communication in the form of a system for handing off or exchanging information [figs. 1-2, col. 2, line 65 to col. 3, line 40]. The Examiner also states that Paull
30 discloses a tethered device (300) connected to power transmission communication network having transceiver (301,306) and power transmission communication system (203) [figs 1-2, col. 3, lines 3-22]

I cannot agree. Please reference page 12 – line 15 for Applicant's remarks.

5 In similar fashion for the rejection of handoff in claim 1, the Examiner rejects
claims 23-25. Examiner also states that Paull discloses the transceiver (301,306)
connected to the power communication network operates inside a lighting
apparatus (821,822) which connects to electrical outlet inherently [figs 1-2, 11,
col.10,line 74 to col. 11, line15] Examiner also states that Paull discloses
untethered device/portable (100) having a transceiver (102,103) for transceiving
10 radio signals to remote location (400) [figs. 1-2, col.2, line 65 to col.3, line 40]

I cannot agree. Please reference page 14 – line 25 for Applicant's remarks.
Furthermore, Paull does not disclose that the lighting apparatus is removable and
directly connected to an electric outlet. Paull does disclose that it is powered by
15 electricity however.

Although the Applicant believes that Claims 23-25 were clearly defined over the
references cited by the Examiner, the claim has been modified in order to clarify
the invention in this respect.

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In similar fashion for the rejection of handoff in claim 1, the Examiner rejects
claim 26. The Examiner states that Paull discloses power line communication in
the form of a system for handing off or exchanging information by wireless
network [figs. 1-2, col.2, line 65 to col.3, line 40].

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I cannot agree. Please reference page 12 – line 15 for Applicant's remarks.

The Examiner rejects claims 27-28 as being unpatentable over Paull. The
Examiner states that Paull discloses the tethered device (300) connected to
30 power transmission communication network having transceiver (301,306) to
transmit signals to remote location as programmed [figs. 1-2, col.3, lines 3-22].

I cannot agree that the Examiner rejects claim 27. Paull does disclose the use of power transmission communication network. However, Paull never discloses the use of a physical interface attached to the power network that can accept removable electric devices and switches on and off the luminescence of a lighting apparatus at the same time. Moreover, this physical interface can be used as the interface to the power transmission communication network.

Although the Applicant believes that claim 27 was clearly defined over the references cited by the Examiner, the claim has been modified in order to clarify the invention in this respect.

I cannot agree that the Examiner rejects claim 28. Please reference page 12 – line 15 for Applicant's remarks.

The Examiner provisionally rejects claim 7 and claims 12-13 under 35 U.S.C. § 103 as obvious to a person having ordinary skill in the art in reference to U.S. Patent 3,656,112 by Paull and U.S. Patent 5,983,073 by Ditzik.

The Examiner rejects claim 7 as being unpatentable over Paull in view of Ditzik. The Examiner states Paull teaches a means for determining a location of the subscriber device (500) [col. 1, line 38-50]. Paull also discloses transmitting data signal to the device [col. 1, lines 26-50], informing the device of location data [col. 1, lines 26-50], determining a time of arrival [col. 4, lines 60-73]. Examiner states that Paull does not specifically mention evaluating data with respect to the untethered device as claimed by applicant. However, Ditzik discloses a wireless communication including cell phone (14), notebook computer (51) that may perform their duties in data communication as programmed [figs. 2-3, abstract].

The Examiner also states that it would be obvious to one having ordinary skill in the art to utilize the teaching of Arjomand in the system of Birchfield to perform their duties as evaluating data and transmitting data signals to remote locations as required.

I have assumed that the Examiner has made a mistake in saying Arjomand and Birchfield as references. I am assuming that the Examiner meant Paull and Ditzik.

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Therefore, I cannot agree with the Examiner stating that it would be obvious to one having ordinary skill in the art to utilize the teaching of Paull in the system of Ditzik to perform their duties in evaluating data and transmitting data signals to remote locations as required. The combination of Paull and Ditzik would not
10 produce the same results as required. Ditzik does not disclose an access point that is capable of handing off or reassigning wireless devices. Ditzik never mentions a method of handoff. One skilled in the art of cellular communication would realize that the base station is responsible for handing off a cellular phone from one base station to another.

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Using the combined reference of Paull and Ditzik also represents impermissible hindsight because the references were addressing different problems. If Paull and Ditzik were trying to solve the same problem, one would expect at least some overlapping prior art references. There is no overlapping art. Therefore,
20 the combination does not seem reasonable and there is no motivation to combine the references.

Although the Applicant believes that claim 7 was clearly defined over the references cited by the Examiner, the claim has been modified in order to clarify
25 the invention in this respect.

The Examiner rejects claim 12-13 as being unpatentable over Paull in view of Ditzik. The Examiner states Ditzik discloses the wireless communication including cell phone (14), notebook computer (51) that may perform their duties in
30 data communication as programmed [figs. 2-3, abstract].

The combination of Ditzik and Paull does not provide for the ability to repeat data, or track items through real time position. Therefore, the combination of these references would not produce the same results.

5 Using the combined reference of Paull and Ditzik also represents impermissible hindsight because the references were addressing different problems. If Paull and Ditzik were trying to solve the same problem, one would expect at least some overlapping prior art references. There is no overlapping art. Therefore, the combination does not seem reasonable and there is no motivation to combine
10 the references.

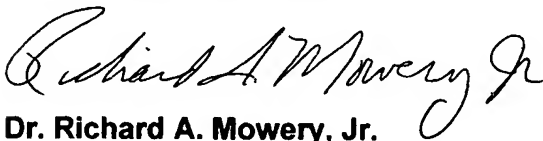
The Examiner must accept that a roadway luminaire is not a photo sensor used for reading a utility meter, but a lighting apparatus used in roadways. A roadway luminaire is not the utility pole used to hang transformers. A roadway luminaire is
15 a streetlight used for providing luminescence to a road.

The Examiner must also accept that handoff is not just the transmission or exchanging of information by a communication device. Also, not all wireless devices support handoff. This is obvious to a person skilled in the art of
20 communication that a specific handoff method or protocol is needed for wireless communication.

Accordingly, the Applicant believes the Application, as amended, is in condition for allowance, and such action is respectfully requested.

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Respectfully submitted,



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